

GenCore version 5.1.4.p5.4578  
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 15:34:02 ; Search time 139.699 Seconds  
(without alignments)  
6045.779 Million cell updates/sec

Title: US-09-808-743A-1

Perfect score: 2754

Sequence: 1 atgacgcctgcgcataatgat.....ggagagctggcagagatag 2754

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153318381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_Mn:\*  
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2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PCBUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2747.6	99.8	3635	2	US-08-588-983-15
2	2747.6	99.8	3635	2	US-08-588-976-15
3	1461.8	53.1	3647	2	US-08-588-983-13
4	1461.8	53.1	3647	2	US-08-588-976-13
5	1221.4	44.4	2911	2	US-08-588-983-11
6	1221.4	44.4	2911	2	US-08-588-976-11
7	1218.2	44.2	2911	2	US-08-588-983-8
8	1218.2	44.2	2911	2	US-08-588-976-8
9	990.8	36.0	3692	2	US-08-588-983-17
10	990.8	36.0	3692	2	US-08-588-976-17
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12	706.8	25.7	1463	2	US-08-588-976-6
13	537.4	19.5	2731	4	US-09-347-878-43
14	535.8	19.5	3618	1	US-07-872-678A-36
15	522.8	19.0	1769	2	US-08-588-983-19
16	522.8	19.0	1769	2	US-08-588-976-19
17	522.8	19.0	2297	2	US-08-588-983-21
18	522.8	19.0	2297	2	US-08-588-976-21
19	103.8	3.8	492	1	US-07-872-678A-8
20	99.8	3.6	183	1	US-07-872-678A-43
21	80	2.9	737	1	US-07-872-678A-4
22	78.4	2.8	532	1	US-07-872-678A-10
23	70.6	2.6	860	4	US-08-998-416-546
24	62.6	2.4	571	1	US-07-872-678A-6
25	56.6	2.1	396	1	US-07-872-678A-9
26	56.6	2.1	396	1	US-07-872-678A-9
27	55.8	2.0	434	1	US-07-872-678A-5

28	54.4	2.0	156	1	US-07-872-678A-45	Sequence 45, Appl
29	52.2	1.9	1128	1	US-07-872-678A-11	Sequence 11, Appl
30	50.6	1.8	7218	1	US-08-232-463-14	Sequence 14, Appl
C	40.6	1.5	4411529	4	US-09-103-840A-1	Sequence 1, Appl
31	40.2	1.5	5228	4	US-09-428-711A-15	Sequence 15, Appl
C	40.2	1.5	5228	4	US-09-428-711A-15	Sequence 15, Appl
32	38.8	1.4	1707	1	US-08-790-309-1	Sequence 1, Appl
33	38.8	1.4	1707	1	US-09-250-585A-1	Sequence 1, Appl
34	38.8	1.4	1548	2	US-08-762-106-5	Sequence 5, Appl
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37	38.4	1.4	1581	2	US-08-762-106-6	Sequence 6, Appl
38	38.4	1.4	1581	2	US-09-320-774-6	Sequence 6, Appl
39	38.2	1.4	2640	4	US-08-684-932A-37	Sequence 37, Appl
40	37.6	1.4	4776	2	US-08-852-401-1	Sequence 1, Appl
41	37.2	1.4	528	1	US-08-852-401-1	Sequence 1, Appl
42	37	1.3	289	4	US-09-007-005-17	Sequence 17, Appl
43	37	1.3	289	4	US-09-244-796-17	Sequence 17, Appl
44	36.8	1.3	1618	2	US-08-533-669A-9	Sequence 9, Appl
45	36.8	1.3	1618	2	US-08-607-509-1	Sequence 1, Appl

## ALIGNMENTS

```
RESULT 1
US-08-588-983-15
; Sequence 15, Application US/08588983
; Patent No. 5854067
; GENERAL INFORMATION:
; APPLICANT: Christopher B. Newgard, et al.
; TITLE OF INVENTION: Methods and Compositions
; TITLE OF INVENTION: for Inhibiting Hexokinase
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: US
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/588,983
; FILING DATE: Concurrently herewith
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Fussey, Shelley P.M.
; REGISTRATION NUMBER: 39,458
; REFERENCE/DOCKET NUMBER: UTSD:424/FUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (512) 474-7577
; TELEX: n/a
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3635 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-588-983-15
; Query Match 99.8%; Score 2747.6; DB 2; Length 3635;
; Best local Similarity 99.9%; Pred. No. 0;
; Matches 2750; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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QY 61 AAGGTTGACCAATTTCTTACACACATGCGTCTCTGATGAGACCTTCTGAGATTTTCT 120
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QY 1801 ACATTCCTCTTCCTTTCGAGCAGAAAGCCTTGAACAGACATCTTCTCAAGTGAACA 1860  
Db 1998 ACATTCCTCTTCCTTTCGAGCAGAAAGCCTTGAACAGACATCTTCTCAAGTGAACA 2057  
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Db 2598 CCGTCCATCTCGCGCCAGCTAGGGCTGAGAGACGTCGAGTACAGCATCATCGTGAAG 2657  
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Db 2778 GACGGGACTCTGTATAGCTTTCATCTTCACTTTGCCAAGTCAATGCAATGAGACGTTGAGA 2837  
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Db 2898 GCAGCTCTCATCTGCGCGCTGCGCGCATCCGAGGAGCGCTGGGAGAGATAG 2951

RESULT 2  
us-08-588-976-15  
Sequence 15. Application us/08588976  
Patent No. 5891717  
GENERAL INFORMATION:  
APPLICANT: Christopher B. Newgard, et al.  
TITLE OF INVENTION: Methods and Compositions for  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: TX  
COUNTRY: US  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/588,976  
FILING DATE: Concurrently herewith  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Fusey, Shelley P.M.  
REGISTRATION NUMBER: 39,458  
REFERENCE/DOCKET NUMBER: US/SD:481/FUS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (512) 418-3000  
TELEFAX: (512) 474-7577  
TELEX: n/a  
INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3635 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

US-08-588-976-15  
Query Match 99.8%; Score 2747.6; DB 2; Length 3635;  
Best Local Similarity 99.9%; Pred. No. 0; Mismatches 4; Indels 0; Gaps 0;  
Matches 2750; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
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Db 198 ATGATGCGCTCGCATATGATGCTGCTGCTTATTCACGAGAGCTCAACCAAAACCAAGTCAG 257  
QY 61 AAGGTTGACCAATTTCTCTACCAATGCTGCTCTCAGATGAGACCTTTGTGAGATTTCT 120  
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Db 258 AAGGTTGACCAATTTCTCTACCAATGCTGCTCTCAGATGAGACCTTTGTGAGATTTCT 317  
QY 121 AGCGGTTCCGGAAGAGATGAGAAAGGGCTAGAGGCTACCAACGACCTTCAGAGCT 180  
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Db 318 AGCGGTTCCGGAAGAGATGAGAAAGGGCTAGAGGCTACCAACGACCTTCAGAGCT 377  
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Db 378 GTGAAATGTTGCTTACCTTTGTGAGTCAACTCCGATGGGACAGACATGGGAGTTTC 437  
QY 241 CTGGCTCTGAGATCTTGAGAGAACCAACTCCGCTGCTCCGAGTAAAGGTGACGGACAT 300  
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Db 438 CTGGCTCTGAGATCTTGAGAGAACCAACTCCGCTGCTCCGAGTAAAGGTGACGGACAT 497  
QY 301 GCGCTCCAGAGATGGAGATGAGAACCAAGATCTACGCGCATCCCTTGAGAGACATGCGG 360  
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Db 498 GCGCTCCAGAGATGGAGATGAGAACCAAGATCTACGCGCATCCCTTGAGAGACATGCGG 557  
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Db 558 GCGAGTGAACCCAGCTGTTTGAACCAATGCGGAAATGCTGCGCAATTCATGACAAAG 617  
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Db 618 CTCAAAATCAAAAGAAAGAGCTCCCTGCTGCTTCACTTCTGCTTCCCTGCGACCGAG 677  
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Db 798 ATTGACATTTGGCGCGTGGGAATGACACAGTTGGGACCATGATGATTTGGCTATGAT 857  
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Db 918 GAAATGCTCATATTGACATGTGTGAGAGGATGAGAGGCGGCAATGATCAATGAGAG 977  
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Db 978 TGGGAGGCTTTGGGAGAGAGCGTACACTCAATGACATCCGAAACGATTGACCGAGAG 1037  
QY 841 ATCGACATGGGCTGCTGAACCCCTGGGAAGCAGCTGTTTGAAGATGATTAAGCGGATG 900  
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Db 1098 TACATGGGAGAGCTGTGTCAGGCTCATCTGTTGAAGATGGCCAGAGCAGCTGTGTTTC 1157  
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Db 1158 CAAGGAAACTCAGCCGAGAACTCTTACCACTGCTCTTTCGAGACCAAGATGTCTCG 1217



REFERENCE/DOCKET NUMBER: UTSD:424/FUS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (512) 418-3000  
TELEFAX: (512) 474-7577  
TELEX: n/a  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3647 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-568-983-13

Query Match	53.1%	Score 1461.8	DB 2	Length 3647
Best Local Similarity	70.9%	Pred. No. 0		
Matches 1940; Conservative	0	Mismatches 797	Indels 0	Gaps 0

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OY	61	AAGTTGACCAATTTCTCTACACATGCGTCTCAGATGAGACCCCTTGAGATTTCT	120
Db	152	AAGATTGACAGTATCTGTAGCGCATCGCGCTCTGATGATGATTCGATGATATCTTG	211
OY	121	AGCGGTTCCGGAGAGGATGAGAAAGCGGTAGGACTACACGCGCCCTACAGCAGCT	180
Db	212	ACACGATTCAGAAAGAAAGATGAAGATGAGGCTCTCCGGGATTTATATTCACACAGCCCTC	271
OY	181	GTGAATAATGTTGCCCTACCTTTGTGAGGTCACTCCGATGGAGACAAATCGGAGATTG	240
Db	272	GTCAGAGATGCGCCACCTTGCTCGGTCCATTCGCGAGCGGCTCAGAAAGGGGGATTTC	331
OY	241	CTGCGCTGGAATCTTGGAGAACCAACTCCGTGTGCTCCGAGTAAAGGGTGACGACAT	300
Db	332	ATTGCGCTGGATCTCGGGGGTCTTCTTCTTGAAATCTCGGGGTGCGAAGCAACAGAG	391
OY	301	GCGCTCCAGACAGTGGAGCATGGAGAACCAAGATCAAGCCATCTCTGAGCATCATCGG	360
Db	392	AAGAACCGAAGCGTCAGATGAGTCTGAGATCTTACGACACCCGAGGAACATCTGTGAT	451
OY	361	GCGACTGGAAACCCACTGTTTGGACCAATCGCGGAATGCTTGCGCAACTTCATGACACAG	420
Db	452	GCGACTGGAAACCCACTTTTGATCATCTGCTGACTGCGTGGGAGACTTCATGGAAGAAA	511
OY	421	CTACAAATCAAGAGAAAGAAACCTCCCTCGGGTTTCACACTCTCTGTTCCCTCGGCACAG	480
Db	512	AAGAAGATCAAGGACAAAGAAAGTTACCCCGTGGGATTCACATTTCTTCCCTCGCCGCAA	571
OY	481	ACAAACTGAGATGAGAGATTTTGGTCTGTCGAGCTAAAGGGGTTCAAGTCCAGTGGCGTG	540
Db	572	TCCAGATGATGAGAGGCTGTACTGATCACTGAGGACAAAGCGGTTCAAGCAAGTGGCGTG	631
OY	541	GAAAGCAGAGATGTGTGGACCTGATCCGGAGGTTATCCAGCGCAGAGGGGACTTTGAC	600
Db	632	GAAAGAGCGGATGTGTCACAGTTGCTGTAATAAGCCATTAGAAGCAGAGGGGACTATGAT	691
OY	601	ATTGACATTTGGCGCGTGGTGAATGACACACTTGGAGACCATGATGACTTGTGGTATGAT	660
Db	692	GCTAATCTTTCGCGGTGTGAATGACACACTAGGGACCAATGATGACTCGGGTTATGAT	751
OY	661	GATCAGACCTGGAGATTGTGTCATTTTGGGACCTGGCAGCAAGCGCTGCTACATGAG	720
Db	752	GACCAACAGTGTGAAGTGGCGCTGATCTATTGGCACAGGCAACCATGCTTGTACATGAG	811
OY	721	GAAATGCGTCAATTTGACATGGTGGAGGAGATGAGGGGCGCATGTGCATCAACATGAG	780
Db	812	GAACTGCGACATGACACTGGTGGAGAGCGACAGGAGGAGATGTGATTAACACAGGAA	871
OY	781	TGGGAGGCTTTGGGAGACAGCGGTACTCTCAATGACATCCCAACGAGTTTGACCCGAG	840
Db	872	TGGGAGGCTTTGGGAGATGATGGTGCCTGTGAAGCATCCGACCCGAGTTTGACAGGAG	931

QY	841	ATGACATGSGGCTCGCTGAAACCTTGGGAAGCAGCTGTTTGAGAAAGATGATTAGCGGATG	900
Db	932	TTAAACCGTGGATCTCTCAACCCGTGGGAAGCGCTTTCGAAAGATGTGAGCGGATG	991
QY	901	TACATGGGGAGCGTGGTCAAGGCTCAATCCGTGGAGATGGCCAAAGCCAGACTTGTTC	960
Db	992	TACATGGGGAGCGTGGTCCGGGCTTAATCTGGTGGAAGATGGCCAAAGAGCGCTTATTC	1051
QY	961	CAAGGAAACTCAGGCCAGAACTCTTACACTGGCTCTTCGAGACCAAGATGTCYG	1020
Db	1052	GAAGGGGCATCACTCCAGAGCTGCTCACGAGGGGAAAGTTCAACACTAGAGCTGTCC	1111
QY	1021	GATATTAAAGAGATTAAGATGGAATTCGAGAAAGGCTTACCAATTCGTATGCGCTGGGT	1080
Db	1112	GCCATTTGAAAGAGATTAAGGAAGGCATTTCAAAATGGCCAAAGAAATTTAAACCGGTTGGGA	1171
QY	1081	CTGATCTCATTTGAGGAGGATTTGTGGGCGACGCAACCGAATCGCAATGTGTCCAGC	1140
Db	1172	GTTGAGCCGCTCTGTATGTGTACTGTGTGTGGTTCAGACATCTGACGATGTCTCTTC	1231
QY	1141	CGCTCGGCGAGTGTGTGCCAGCCACCCGTGGCGGCTGTGTGGCAATCAAGAGAAC	1200
Db	1232	CGATACAGCAACCTGGTGGGCGCCAGCGTGGGCCATTTGAACCGGCTCGGGGACAAC	1291
QY	1201	AAGGCGGAGAGCGACTTGCTCCACCATTCGTTGATGGCTCGGTACTCAAAAGAAAT	1260
Db	1292	AAGGCGACACCCAGCGCTCGCGACACGAGTTGGCGTGGAGGCTTCTCTTACAAAGATCAC	1351
QY	1261	CCCCATTTTGGCAAGGCTCTCCATTAAGGAGAGAGAGGAGCGTGTCCCGACTGTGATGTC	1320
Db	1352	CCACAGTACTCCCGGCGGTTTCCAAAGACCTCTGAGCGGGGTGTCTGACTCCGACGTC	1411
QY	1321	CGCTTCTCCGCTCTGAGATGGCAGCGCAAGGGGGCTGCTATGTTGAGCGGCGGTGCT	1380
Db	1412	CGTTTCCCTCTCAGAGAGTGGCAGCGGCAAGGGGGCCGCATGTTGACGGAGTGAAC	1471
QY	1381	TACGCTGTGGCTGACCAACACCGGGCCCGCAGAGACCTCTGGAATCTCTGAAGCTGAGC	1440
Db	1472	TACCGCTGGCTGTGAGCAGCAGCGGAGATTTGAAGAAACCTCTGGCCACTTCCGCTCAGC	1531
QY	1441	CACGAGCAGCTTCTGAGAGGTTAAGAGAAGATTAAGAGTGAAGTGAAGAGCAGAGGCTGAGC	1500
Db	1532	AAGCAGAGCGCTGATGAGGTGGAAGAGAGGCTACGACAGAGATGGAATGGGCGTGAAG	1591
QY	1501	AAGGAGCAGATGGCGGCGCCCTGTCAAGATCTGCCCACTTACGTGTGTCCACTCCA	1560
Db	1592	AAGGAGACCAACAGCAAGAGCTACTGTCAAAATGCTCTCTTCTTGTGCGGAGCATCCG	1651
QY	1561	GATGGCAGAGGAAGAGAGACTTCTGGCCCTTGGATCTTGGAGGAACAACTCCGGGTC	1620
Db	1652	GATGGGACTTGAACAGGCTGACTCTTCGCGCTTGGATCTTGGAGGAACGAATTTCCGGGTT	1711
QY	1621	CTGCGTGGCTGTGCGCTAATAGCAAGCGGAGGGGCTGGAGATGCATTAACAAGATCTAC	1680
Db	1712	CTGCTGGTGAAGATCCCGCAGTGGGAAAAAGAGAACAAGTGGAAATGCAACAAAGATCTAC	1771
QY	1681	TCCATCCCAAGAGGATTATGATGACATGGCAGCTGGGGAAGAGCTCTTCGACCAATTGTCAG	1740
Db	1772	TCCATTTCCCTGGAAATCATGACAGGGCACCGGGGATAGAGCTGTTGACACATCGTCTCC	1831
QY	1741	TGCATTTGGGACTTCTCTGGAGTACATGAGCATGAAGGGCGTGTCCCTTGCTTTGGGTTTC	1800
Db	1832	TGCATCTCTGACTTCTCTGGAGCTACATGGGGGATCAAAAGGCCCGGCAATGCTCTCTGGGCTTC	1891
QY	1801	ACATCTCTCTCCCTCTGCGAGCAAGAACAGCTGTAGCCAGAGCATCTCTCTCAAGTGAACA	1860
Db	1892	ACCTTCTCATTTTCCCTGCGACATAGAGCAACCTGAGCTGTGGAACTCTTGATCTCATATGACA	1951
QY	1861	AAGGATTTCAAGGATCTGGCTGTGGAGGTGAGAGATGTGGTCACTTGTCTGAAGAGACG	1920
Db	1952	AAGGTTTCAAAAGCCACTGAGATGTGAGGGCCATGATGTAGCCCTCTTACTGAGGAGATCG	2011
QY	1921	ATTCAACGGGCAAGAGATTTGACTGTGATGTGGTTCCTGTGTGATATACCACTGTGGG	1980

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Db 2012 GTGAAGAGAGAGAGAAATTGACTTGATGTGTGGCTGTGTCACAGACACCGTGGC 2071
Qy 1981 ACTATATATGACTTGTGGCTACGAAAGACCCCTACTGTGAAGTTGGCTCATTTGGCACC 2040
Db 2072 ACCATATGACCGTGTGATGATGAAGAACCCACTTGGCAATTTGGACTCATCTGGGGACG 2131
Qy 2041 GGAAGCAAGCCCTGCTACATGGAAGATGCTTAATGTGTGAGCTGGTGGAGCGAGAGAG 2100
Db 2132 GGGACCAATGCTGCTACATGAGAGAGATGAAGAATGTGTGAGATGGTGGAGGGAAACAG 2191
Qy 2101 GGAAGCATGTGTCTCAACATGAGTGGGAGCATTTTGGGACAATGGTCCCTGATGAC 2160
Db 2192 GGGACATGTGTGATCAACATGAGTGGGAGCCTTGGTGACAAATGGTGTCTGGATGAC 2251
Qy 2161 TTGCGGACCGTGTGTATGTGTGTGATGAGCTTTCTCTCAACCTGGCAACAGAG 2220
Db 2252 ATTCAGACAGACTTTGCAAAAGGTGAGAGAAATTTCTTAACCTGGGAAACAAAG 2311
Qy 2221 TTGAGAGATGATGACGGCATGTACTTGGAGAGATTGTGGCAACATTTCTCATGAT 2280
Db 2312 TTGAGAGAAATGATGATGGATGTACTGTGGATGATGCTCGTAACATCTGATTGAC 2371
Qy 2281 TTACAGCAACGGGGCTGCTCTTCCGAGCCGATCTCAAGCGCTCAAGACAGGGA 2340
Db 2372 TTACAGCAAAAGAGCTTCTCTTCCGGAGACAGATCTCCGAACCACTCAAGACCGAGGC 2431
Qy 2341 ATCTCTGAACAACTAGTCTCTGCTCAGATAGAGAGCAGCTGCTGCTACAGCGTT 2400
Db 2432 ATCTTTGACACCAAGTTTCTCTCAGATTTGAGAGTACCGCTGCTGCTCCAGGTG 2491
Qy 2401 CGTGCCATCTCTGCGCCACTAGGGCTGAGAGACGCTGGATGACAGCATCATCTGTGA 2460
Db 2492 CGGGCATCTCTCAGAGCTGGTGTGGAACAGCAGCTGTGACAGCATCTGCTGTGA 2551
Qy 2461 GAGGTGTGACTGTGGTTGGTCCGGGCGCTGCAAGCTGTGGGGCGGACAGTGGCGGC 2520
Db 2552 ACCGTGTGTGGGTGTGTGTCAGAGAGGGCGCTCAAGCTGTGTGGTCCGGAGCGGC 2611
Qy 2521 GTATGTGACAGATAGAGAGAACCGTGGCTGACAGAACCCCAAGATGACAGTGGCGCTG 2580
Db 2612 GTGTGGAGAAAGATCAGAGAGAAAGAGCGCTAGAACCATCTGAATGTAACTGTGGAGTG 2671
Qy 2581 GACGGACCTCTATTAAGCTTATCTCTCTGCTTCCAGAGCTCATGAGTGAAGCGGTGAG 2640
Db 2672 GATGGAGACCTCTACAACTTCATCCACATCTCTCAGATCATGACCAAACTGTGAG 2731
Qy 2641 GATCTGCTCCGAAATGTGACGTCCTTCTGGAATCCGAGAGCGGAGTGGGAAGGA 2700
Db 2732 GAACGTCTCAACAAAGTACCTGTCTCTCTCTGTCTGAAGACGCGAGCGGCAAGGGG 2791
Qy 2701 GCAGCTTCATCACTGCGCGTGGCTGCGCATCCGGG 2737
Db 2792 GCGGCCCTTATCAGAGCTGTGGCGTGGCGCTCAGAG 2828

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RESULT 4  
US-08-588-976-13  
Sequence 13, Application US/08588976  
Patent No. 5891717

GENERAL INFORMATION:  
APPLICANT: Christopher B. Newgard, et al.  
TITLE OF INVENTION: Methods and Compositions for  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P. O. Box 4433  
CITY: Houston  
STATE: TX  
COUNTRY: US  
ZIP: 77210  
COMPUTER READABLE FORM:

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? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/588,976
? FILING DATE: Concurrently herewith
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: Fussey, Shelley P.M.
? REGISTRATION NUMBER: 39,458
? REFERENCE/DOCKET NUMBER: UTSD:481/EUS
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (512) 418-3000
? TELEFAX: (512) 474-7577
? TELEX: n/a
? INFORMATION FOR SEQ ID NO: 13:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 3647 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? US-08-588-976-13

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Query Match 53.1%; Score 1461.8; DB 2; Length 3647;  
Best Local Similarity 70.9%; Pred No. 0;  
Matches 1940; Conservative 0; Mismatches 797; Indels 0; Gaps 0;

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Qy 1 ATGATCGCCTCGCATATGATTCGCTGCTTATTCACGAGCTCAACCAAGAGTGCAG 60
Db 92 ATGATCGCCGCGCAACTACTGGCTATTAATTCACGAGCTGAAGATGACCAAGTCMAA 151
Qy 61 AAGGTGACCAATTTCTCAACCAATGCGTCTGATGATGAGACCTTCTGAGATTCT 120
Db 152 AAGATTGACAAATATCTGATGACCATGCGCTCTGATGATGATTTCTGATTAATATCTG 211
Qy 121 AGCGGTTCCGAAAGAGATGAGAAAGGCTAGAGACTACCAAGCCCTACAGCAGCT 180
Db 212 ACACGATTCAGAAAGATGAGAAATGCGCTCTCCGGGATTATATGCAACAGCTCTC 271
Qy 181 GTGAATATGTCCTACCTTTGTGAGGTCACTCCGAGTGGACAGACATGAGGAGTTC 240
Db 272 GTCAAGATGCTCCCACTTGTCTCGGTCTCAATTCGAGGCTCAGAAAGGGGAGTTTC 331
Qy 241 CTGGCTCTGATCTTGAGAGACCAACTTCGCTGCTCCGATCTGAGTGAAGTGAAGCAT 300
Db 332 ATTTGCCCTGATCTGGCGGGTCTCTCTTCCAACTCTCGGATGAGTGAACACGAG 391
Qy 301 GGCCTCCAGAGAGTGAATGAGAACAGATCTACGCCATCTTGAGACATCATGCGG 360
Db 392 AAGAACCAGAACGTCAGCATGAGTGTGATCTAGACACCCAGAACATCGTGCAT 451
Qy 361 GGCAGTGAACCACTGTTTGAACCAATCGCCGATGCTGCGCAACTTCATGACAA 420
Db 452 GGCAGTGAACCACTTTTCATCATGTCGCTGACTGCTGGAGACTTCATGAGAAA 511
Qy 421 CTCAAAATCAAGAGAAAGAGCTCCCTGCTGGGTTCACTTCTCGTCCCTGCCACAG 480
Db 512 AAGAAGATCAAGAGCAAGAAGTTACCGGTGATTCACATTTTCTCTCCCTCGCCAGCA 571
Qy 481 ACAAAATGATGAGAGTTTGTCTCTGAGTGAAGGGTTCAGAGTCAAGTCAAGTGCAG 540
Db 572 TCCAAAGATGAGTGAAGCTGTACTGATTCAGTGAACAAAGCGGTGAAGACAGTGGCG 631
Qy 541 GAAGCAGAGATGAGTGTGATGATCCGGAAGTTCACACCGAGAGGGGACTTTGAC 600
Db 632 GAAGAGCGGAGTGTGTAAGTTGCTGAATTAAGCCATTAAAGCGAGGACATATGAT 691
Qy 601 ATTGACATTGTGGCGGTGATGATGACACAGTTGGACCATGATGATGATGATGAT 660
Db 692 GCTAACTATTGTGCGCGTGTGATGATGACACAGTAGAGGACCATGATGATGATGAT 751
Qy 661 GATCAAGACTGCGAAGATTGTCTCATTTGTGGGACTGGCAGCAACGCTGTATCATGAG 720

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Db 752 GACCAACAGCTGAAGATCGCGCTGATCATTTGGCAGACAGCCAAATGCTTCTCATATGAG 811  
Oy 721 GAATACCGTCATTTTGAATGATGAGGAGGAGATGAGGGGGCATGTGATCATCAATGAGAG 780  
Db 812 GAACTCGCACATTCACATCGTGTGAAGGCGAGGAGGGAGATGTGTATTAACACGGAA 871  
Oy 781 TGGGAGACCTTTTGGGAGCAGCGGTACATCAATGATCCGAACCCGATTTGACCGAGAG 840  
Db 872 TGGGAGACCTTTTGGGAGATGATGGGTCCCTGGAAGACATCCGAACCGATTTGACAGAG 931  
Oy 841 ATCGACATGGGGCTGCTGAGAACCTTGGGAAGAGCTTTTGAAGAGATGATTAAGCGGATG 900  
Db 932 TTAGACCGTGTGATCTCTCAACCTCGGGAACACCTTTTCGAAGAGATGATGAGCGCATG 991  
Oy 901 TACATGGGGAGCGTGGCAGCGTCATCCGTGTAAGATGAGTGGCCAAAGCAGAGCTGTTC 960  
Db 992 TACATGGGGAGCGTGGTCCGGCTAATCTGTGTGAAGATGGCCAAAGAGGCTCTTAATTC 1051  
Oy 961 CAAGGGAACCTCAGCCAGAACTCTTACCATGGCTCTTCGAGACCAAGATGTCTCG 1020  
Db 1052 GAAGGGCGCATCTACTCCAGAGTGTCTCAGAGGGGAAGTTCAACACTAGTGAAGTCTCC 1111  
Oy 1021 GATATTGAAGAGATTAAGATGAATCGAAGAGGCTTACCAAACTCTGATGCGCTGGT 1080  
Db 1112 GCCATTGAAGAGATTAAGAGGATTAAGAAATGCCAAGAAATCTTAACCCGCTTGGGA 1171  
Oy 1081 CTGAATTCATTTGAGAGGAGATGTGTGTGCGACGACCGAATCTGCCAGATTTGTCCAG 1140  
Db 1172 GTTGAGCGCTGTGATGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1231  
Oy 1141 CGCTGGCCAGT 1200  
Db 1232 CGATTCAGACCACTGCTGT 1291  
Oy 1201 AAGGGCAGAGGAGGACTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1260  
Db 1292 AAGGGCAGACCCAGCCGCGGACCGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1351  
Oy 1261 CCCCATTTCGCAAGGCTGT 1320  
Db 1352 CCACAGACTCCGCGGCTGT 1411  
Oy 1321 CGCTTCCTCGCTGT 1380  
Db 1412 CGTTCTCTCTCTCAGAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1471  
Oy 1381 TACCGT 1440  
Db 1472 TACCGCTGT 1531  
Oy 1441 CAGGAGAGCTGT 1500  
Db 1532 AAGGAGCGCTGATGT 1591  
Oy 1501 AAGGAGCGCATGT 1560  
Db 1592 AAGGAGCGCAACGCAAGCTACTGTCAAAATGTGTGTGTGTGTGTGTGTGTGTGTGT 1651  
Oy 1561 GATGT 1620  
Db 1652 GATGT 1711  
Oy 1621 CTGT 1680  
Db 1712 CTGT 1771  
Oy 1681 TCCATCCAGAGAGGATTAATGATGATGATGATGATGATGATGATGATGATGATGATG 1740  
Db 1772 TCCATCCCTGGAATCATGACAGGCGACCGGGATGATGATGATGATGATGATGATGATG 1831  
Oy 1741 TGCATTGGGAGCTTCTGT 1800

Db 1832 TGCATCTCTGACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1891  
Oy 1801 ACATCT 1860  
Db 1892 ACCCTTCT 1951  
Oy 1861 AAGGATTTCAAGGATCTGT 1920  
Db 1952 AAGGATTTCAAGGATCTGT 2011  
Oy 1921 ATTACCGCGGAGAGGATTTGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1980  
Db 2012 GTGAAGGAGAGAGGATTTGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2071  
Oy 1981 ACTATGATGATGT 2040  
Db 2072 ACCATGATGATGT 2131  
Oy 2041 GGAAGCAACGCTGT 2100  
Db 2132 GGCACCAATGCTGT 2191  
Oy 2101 GGACGATGT 2160  
Db 2192 GGCACGATGT 2251  
Oy 2161 TTGGGAGCGGT 2220  
Db 2252 ATTCAGAACAGACTTTGACCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2311  
Oy 2221 TTTCAGAAAGATGATCAGCGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2280  
Db 2312 TTTCAGAAAGATGATCAGCGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2371  
Oy 2281 TTTCAGAAAGGAGGAGGATTTGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2340  
Db 2372 TTTCAGAAAGGAGGATTTGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2431  
Oy 2341 ATCTGTGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2400  
Db 2432 ATCTGTGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2491  
Oy 2401 CGTGCATCTCTGT 2460  
Db 2492 CGGCGCATCTCTGT 2551  
Oy 2461 GAGGT 2520  
Db 2552 ACCGT 2611  
Oy 2521 GTATGTGAAGATTAAGAGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2580  
Db 2612 GTGTGTGAAGATTAAGAGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2671  
Oy 2641 GATGT 2700  
Db 2732 GAACTGT 2791  
Oy 2701 GCAGCTGT 2737  
Db 2792 GCGCGCTTATCACAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2828

RESULT 5  
US-08-588-983-11  
; Sequence 11, Application us/08588983  
; Patent No. 5854067  
; GENERAL INFORMATION:  
; APPLICANT: Christopher B. Newgard, et al.







QY	361	GGAGTGGAAACCCAGCTGTTTACCACATCGCCCAATGCTTGCCCAACTTCATGACAG	420
Db	458	GGGATGGAAACCACCTTTTTCATCATCTCCCTGCTGACGCCGGGAGACTTCATGAGAAA	517
QY	421	CTACAATCAAGAAGAACAGCTCCCTTGCGTTTCACTCTGTGGTCCCTGGCCACAG	480
Db	518	AAGAATATCAAGACAAAGAAGTTACCCTGGGATTTACATTTTCTTCCCTGCCACAA	577
QY	481	ACAAAACCTGGATGACAGTTTTTTGGTCTCGTGACCTAAGGGGTTCAAGTCCAGTGGCTG	540
Db	578	TCCCAAGATTAAGATGAGCGCTGTACTGTATCACTGCGGACAAAGCGGTTCAAAAGCAGTGGCGTG	637
QY	541	GAAGCAGACAGATGTGTGGACCTGATCCGGAAGGTTATCCAGGCCACGAGGGGACTTTGAC	600
Db	638	GAAGAGACCGGATGTGTGTCAAGTTGCTGAATTAACCCATTAAGAAGGAGGGGACTATGAT	697
QY	601	ATTGACATTTTGGCCCGTGTGAATACACAGTTGGGACCATGATGACTTGTGGCTATGAT	660
Db	698	GCTAATCTTCTCGCTGGTGAATACACAGTAAAGGACCATGATGATGACTCGGTTATGAT	757
QY	661	GATCAGACCTGGCATTTGGTGTCTATTGTGGGCACTGGGACGCAAGCCCTCTACATGGAG	720
Db	758	GACCAACAGTGTGAAGTGGCTGTATCTATTTGGCACAGCACCAATGCTTCTCATGGAG	817
QY	721	GAATTCGCTCATATTGACATGTTGGAGGAGACATAGGGGGCGCATGTGTCACTCAACATGGAG	780
Db	818	GAACTGCCACATCGACTGCTGTGAAGGGCAGCAGGGGAGATGTGTATTACACGGAA	877
QY	781	TGGGAGCCCTTTGGGGAGCAGCGGTACACTCATATACACTCCGAACCGAGTTTGAACCAAG	840
Db	878	TGGGAGCCCTTTGGGGATGATGTGGTCCCTGTGAACATCTCGAACCAGGTTTGCACAGAGG	937
QY	841	ATCGACATGGCTGCTGTGAACCTCTGGGAAGAGCTGTTTGAGAAGATGATTACCGGATG	900
Db	938	TTAGACCGGTGATCTCTCAACCTCGGGAGAGAGCTGTTGAGAAGATGCTGAGCGCATG	997
QY	901	TGATGCGGGAGACTGTGTAGGCTCATCTCTGGTGAAGATGGCCAAAGCAGCTGTTGTTT	960
Db	998	TGATGCGGGAGACTGTGTCCGCTAATCTGTGTGAAGATGGCCAAAGGAGCCCTTATTTT	105
QY	961	CAAGGAACCTCAGCCCGCAGAACTCTTACCACTGGCTCTTGGAGACCAAAATGTCTCG	1022
Db	1058	GAAGGGCCCATCTACTCCAGAGACTCTTCAAGGGGAAAGTTTCAACACTGTAGCGTGTCC	1117
QY	1021	GATATTCAAGAGATTAAGATGGAATGAGAGAGCCATTACCAAAATCTGTATGCGCGCTG	1080
Db	1118	GCCATTCAAAAGATTAAGGAAGCATTCAAAAATGCCAAGAAATCTTTAACCCGCTTGGGA	1177
QY	1081	CTGATTCATTGCGAGGAGATTTGTGTCCACGCCACCGAATCTGCCAGATTGTGTCCAG	1144
Db	1178	GTGAGACCGCTTGATGTTGATGTGTGTGCGTCCACACATGTGCAAGATGCTGTCTCTTC	1237
QY	1141	CGCTGCGCACTGTGTCCGAGAGCCAGCCCTTGCCGCGGTGCTGTGGGATTCAAAGGAAC	1200
Db	1238	CGATACAGCAACCTGTGTGGCGCGGACGCTGGTGCCATCTTAACACGCTCGCGGGACAA	1297
QY	1201	AAGGGCAGAGAGGCACTTCGCTCACCATCGGTGTGTGATGTGCTCGTCTACAAGAAACAT	1260
Db	1298	AAGGGCAGACCCACCTGTGCGGACCCAGCGTTGGCGTGGAGCGTTTCTCTACAAGATGAC	1357
QY	1261	CCCCATTTTGGCAGAGCTCTTCATTAAGGCACTGTAAGAGGCTGTGGCCGACAGTGTATGTC	1322
Db	1358	CCACAGATCTCCCGGCGGTTTCCACAAAGACCTGTAGCGGGGTGTGTCTATCTCCAGCTC	1417
QY	1321	CGCTTCTCCGCTCTGAAGATGGCAGAGCGCAAGGGGGCTGTGATGGTGAAGCGCGGTGCT	1380
Db	1418	CGTTTCTCTCTCTACAGAGTGGCAGGGGCAAGGGGGCGGCATGTTGATACAGAGCC	1477
QY	1381	TACCGTGTGGCTGACCAACACCGGGCCCGCCAGAGACCTTGGATGTTCTGAAGCTGAC	1440
Db	1478	AGGATGAGGCGCACCAAGCAAGAAAGTGTGAGCAACATCTGGCAGAGTTCTTCCAGCTGAG	1537

Qy	1441	CACAGACAGCTTCTGGAGGTTAAAGAAATGAAGTGAATGAGACAGGCTGTAGC	1500
Db	1538	GAGGAGACCTCGAAGAAAGTGATATAGCCGGATGACGAAGGAGATGGACCGTGCCCTAGG	1597
Qy	1501	AAGGAGACCGATCGGTGCGCCCTGTGAAGATGTGCCACTTTCAGTGTGCCATTCGA	1580
Db	1598	CTGAGACCCACGAGGAGGCGCAGTGTAAGAATGTTACCCACTTCAGTGTCCACCCCA	1657
Qy	1561	GATGCGACAGAAAGAGACCTTCTGGCCTTGGATCTTGGAGAGACAACTTCGGGGTC	1620
Db	1658	GAAGGCTCAAGAGTCGAGAGCTTCTCCTTTAACCTCGGAGAGAACCACTTCAGATG	1717
Qy	1621	CTAGCTGTGGTGGCTTAATGGCAA-----GGGAGGGGGCGTGGAGATGCATCAAG	1674
Db	1718	ATCTGTCTAAAGTGGGAGAGGGGGAGGAGGAGCGCAGTGGAGCGTGAAGACAAACACACG	1777
Qy	1675	ATCTACTTCATCCACAGAGGATTATGCATGCGCACTGGGGAAGAGCTCTTGACACATT	1734
Db	1778	ATGTACTCCATCCCGGAGGAGCGCATATACGGGCACTCCGAGATGCTCTTGTACTACATC	1837
Qy	1735	GTCAGAGTCATTGGGACCTTCAGAGGTATATGGGCATGGAAGGGCGTGTCCCTGCTTG	1794
Db	1838	TCATGATGCTCTCTGACTTCTTTGACAAACATCAGATGAAGCAGCAAGAAACGTGCCCTG	1897
Qy	1795	GGTTTCACATTCTCTTCCCTTGCCACAGACAGCCATAACAGACATCTCTCTCAAG	1854
Db	1898	GGCTTCACCTTCTCTTCCCTGTGAGGACAGAAAGACTAGACAAGGCAATCTCTCTAAT	1957
Qy	1855	TGACCAAAAGGATTCAAAAGCATCTGCTGCGAGGGTGAAGATGTGTACACTTGTGAAG	1914
Db	1958	TGACCAAAAGGCTTCAAAAGGCTCTTGAGCAGAAAGGAACAACATCTGAAGGACTTCTCGA	2017
Qy	1915	GAAGCATTACCCGCGAGAGAGAGATTGACCTGATGCTGTGCTCCGCGTGAATGACACA	1974
Db	2018	GATGCTATCAAGAGGAGAGGGGACTTGAATGATGTGTGTGGCANTGTGAACGACACA	2077
Qy	1975	GTTGGACATATATGACTTGTGGCTACGAAGAACCTTCACTGTGAAGTTGGCTCATTTGT	2034
Db	2078	GTGGCCACATGATCTTCCTGCTACTATGAAGACCGGCAATGTAGGTGGCACTGATTTGTG	2137
Qy	2035	GGCAGCGAAGCAACCCGCTCATATGGAAGAGATCGTAATGTGAGCGGTGGAGCGGA	2094
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Qy	2095	GAGAGGAGCGATGTGTCAACATGAGGTGGGAGCAATTGGGACAATGTGCTCCCTG	2154
Db	2198	GATGAGGAGCGATGTGCTCAACAGGAGTGGGCGCTTCGGGAGTGGCGAGCTG	2257
Qy	2155	GATGACTTGGGACCGGTGTTGATGTGCTGTGGATGAGCTTCTCTCAACCTGGCAAA	2214
Db	2258	GATGATTTCTCTGTGAGATATGACCGGATGTGTGATGAAGCAAGCTCAGCAACCCCGTCA	2317
Qy	2215	CAGAGTTTCAGAGATGATTCAGACGGCATATCTTGGGAGAGATTTGGCAACATTTCTC	2274
Db	2318	CAGCTGTACGAAAGATCATCGTGGGAAGTATATGGGGAGCTGTTACGACTTGTGTCTG	2377
Qy	2275	ATCGATTTACAGACGGGGGCGTCTCTTCCAGAGCCGATCTCAGAGCGCTTCAAGACA	2334
Db	2378	CTTAAAGCTGTGTGACAGAAACCTTCTGTTTCCACCGGAGAGCGCTTCGAGCTGCGACAG	2437
Qy	2335	AGGGGAATCTCGAAACTAAGTTCTGTCTCGATGATGAAGGAGACTGCTTACCGCTGTGA	2394
Db	2438	CGTGTGCTTTTGAAGCCGTTTCTGTGTACAAAGTGGAGAGCGACTCCGGGAGCCGAAG	2497
Qy	2395	CAGTTTCTGCCATCTGTGCCACCTAGGCGTGGAGAGCAGCTGTGATGACATCATCTATC	2454
Db	2498	CAGATTCACAACATCTCTAAAGCACTCTGGGCGTTTCGACCTCTGTACCGACGTGCACTT	2557
Qy	2455	GTGAAGAGAGTGTGCACGTGTGTTGCTCCGGCGCGCTGCACAGCTCTGTGTGCCAGGCATG	2514
Db	2558	GTGGCGCGTGTGTGAAGCCTGTGTCCATCTCGCGCGCCCAATGTGTCTCCGACGAGACTA	2617
Qy	2515	GCCTCGTAATGTGACAAAGATGAAGAAACCTGTGGCTGTGAACCCCAATGTGACAGT	2574

Db 2618 GCTGGGGTCTATAATTCGCATGCGCCGAACCGCAGTGAAGAGCTGATGCCATCTACTG 2677  
Oy 2575 GCGTGGACGAGGACTCTGTATAGCTTCATCTCACTTTCACAGCTCATGATGAGACG 2634  
Db 2678 GCGGTGATGCTCCGTGTACAGCTGACCCGAGCTTCAGAGGAGGTTTACAGCGCAGT 2737  
Oy 2635 GTGAGAGATCTGGTCCGAATGTGACGTCTCTCCGTAATCCGAGGAGCGAGTGG 2694  
Db 2738 GTGCGAGGCTGACACCCAGCTGCGAATTCACCTTCATGTGAATCAGAGGAGCGAGCGC 2797  
Oy 2695 AAGGAGCAGCTCTCATCACTGCGCGGCTGC 2727  
Db 2798 AAGGAGCGCGCAGCTGCTCTGCGGTGCGCTGC 2830

RESULT 7  
US-08-588-983-8  
Sequence 8, Application US/08588983  
Patent No. 5854067

GENERAL INFORMATION:  
APPLICANT: Christopher B. Newgard, et al.  
TITLE OF INVENTION: Methods and Compositions  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: TX  
COUNTRY: US  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/588,983  
FILING DATE: Concurrently herewith  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Fussey, Shelley P.M.  
REGISTRATION NUMBER: 39,458  
REFERENCE/DOCKET NUMBER: UTSD:424/FUS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (512) 418-5000  
TELEFAX: (512) 474-7577  
TELEX: n/a  
INFORMATION FOR SEQ. ID NO.: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2911 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-588-983-8

Query Match 44.2%; Score 1218.2; DB 2: length 2911;  
Best Local Similarity 65.6%; Pred. No. 0;  
Matches 1794; Conservative 0; Mismatches 933; Indels 6; Gaps 1;

Oy 1 ATATCGCCCTGCATATGATCGCTGTATTCACGGAGCTCAACCAACCAAGTGCAG 60  
Db 98 ATATCGCCCGGACACTACTGCGCTATTACTTACCGAGCTGAAGATGACCAAGTCAA 157  
Oy 61 AAGGTGACCAATTTCTCTACACATGCGTCTCTCAGATGAGACCTTTGTGGAGATTTCT 120  
Db 158 AAGATTGCAAGATATCTGATCGCATGCGCTCTGTGATGATGATGATGATGATCTG 217  
Oy 121 AGCGGTTCCGAAAGGATGAGAAAGGCTAGSAGCTACACGACCTTACGACGCT 180  
Db 218 ACAGGATTCAGAAAGATGAGAAATGCGCTCTCCGGGATTAATATCAACAGCGCTCC 277

Oy 181 GTGAAATGTTGCTACCTTTGTGAGTGCACTCCGAGTGGAGACAGAACATGGGAGTTC 240  
Db 278 GTCAAGATGCTGCCACCTGCTCGGTCCATTTCCGGAGCGCTCAGAAAGGGGATTTTC 337  
Oy 241 CTGGCTCTGGATCTTGGAGAAACCACTTCCGTGTCTCCAGTAAAGGTGACGCAAT 300  
Db 338 ATTGCCCTGATCTGGCGGGGTCTTCTTCCAAATCTCTCGGGTGTGAGTGAACAGCGAG 397  
Oy 301 GGCCTCCACAGATGAGATGAGAAACAGATCTACGCTACGCTTTGAGGACATCATGCGG 360  
Db 398 AAGAACGAGAGCTCAGCATGGAAGTGTGATGATGACAGCCAGAGAACATCTGTGAT 457  
Oy 361 GCGAGTGAACCCAGCTGTTTACACATCGCCGGAATGCTGGGCCCACTTCAATGACAG 420  
Db 458 GCGAGTGAACCCAGCTTTCATCATGTGCGTGAATGCTGGGAGACATTCATGAGGAAA 517  
Oy 421 CTACAAATCAAGAGAGAGCTCCCTCTGGCTTTCACCTTCTCGTTCCCTGACACGAG 480  
Db 518 AAGAAAGATCAAGGAGACAAAGAGTTACCCGTGGGATTCACATTTCTTCCCTGGCACA 577  
Oy 481 ACAAACTGATGAGAGTTTGTGCTGCTGGAGTCAAGGGGTTCAAGTCCAGTGGCGTG 540  
Db 578 TCCAGATAGATGAGGCTGTACTGATCAGCTGAGACAAAGCGTTTCAAGCAGATGGCGTG 637  
Oy 541 GAAGCGAGAGATGTGCTGACCTGATCCGAAGCTTATCCAGCGCAGAGGAGCACTTTGAC 600  
Db 638 GAAGGAGCGGATGTGTCAAGTTGCTGAATAAAGCCATTAAAGAGGAGGAGCTATGAT 697  
Oy 601 ATTGACATTTGGCGCTGCTGAATGACACAGTTGGACCATGATGACTTGTGGCTATGAT 660  
Db 698 GCTAACATTTGCTGCCGTGTGATGACACAGTGGGACCATGATGACTGCGGTTTGTGAT 757  
Oy 661 GATCAGAACCTGGAGATGTTGCTCATTTGGGAGCTGGCAGCAGACCGCTGCTCATGAG 720  
Db 758 GACCAACAGTGTGAAGTGGCTGATCATTTGGACAGGACCAATGCTGTCTCATGAGAG 817  
Oy 721 GAATGCTGCTATTTGACATGTGTGAGGAGATGAGGGCGCATGTGTCATCAACATGAG 780  
Db 818 GAATCTGACACATCGACCTGCTGTGGAAGGCGAGAGGGAGATGTGTTAATACAGGAA 877  
Oy 781 TGGGAGCGCTTTGGGAGCAGCGGTACACTCATATGACATCCGAACCGAGTTTACAGAG 840  
Db 878 TGGGAGCGCTTTGGGAGATGATGGTCCCTGGAAGACATCCGAACCGAGTTTACAGAG 937  
Oy 841 ATGACATGCGCTGCTGAGACCTTGGGAAGCAGCTGTTTGAAGATGATTAACGGGAT 900  
Db 938 TTGACCGTGTGATCTCTCAACCTTGGGAGACACTGTTGAGAGATGTGACCGCGATG 997  
Oy 901 TACATGGGGAGCTGTGTCAGGCTCATCTGTTGAAGATGGCCAGAGCAGCTGTGTTTC 960  
Db 998 TACATGGGGAGCTGTGTCGCGCTAATCTGTGAAGATGGCCAGAGGAGCTCTTATTC 1057  
Oy 961 CAAGGGAACCTCAGCCAGAACCTTACACACTGCTGCTTTCAGAGACCAAGATGCTCG 1020  
Db 1058 GAAGGGCGCATCACTCCAGAGCTGCTCAGAGGGGAAAGTTCAACACTATGTGACGTGTC 1117  
Oy 1021 GATATTGAAGAGATTAAGATGAGATGAGAAAGGAGCTTACCAAACTGATGCGCGTGGT 1080  
Db 1118 GCCATTGAAGAGATTAAGAGAGCATTCAAATATGCCAAGGAATCTTAACCCGTTGGGA 1177  
Oy 1081 CTGAATTCATTTGAGAGAGATTTGTGTGGCAGCAGCAGCAATCTGCCAGATTGTCTCAG 1140  
Db 1178 GTGAGCGCTGTGATGTTGACTGTGTGCGTCCAGCAGCATCTGCAAGATGCTCTCTTC 1237  
Oy 1141 CGCTCGGCCAGTGTGTCCGAGCAGCAGCTGCGCGGCTGTGTGGGCAATCAAGAGAAC 1200  
Db 1238 CGATCAACCAACTGTGTGTCCGAGCAGCAGCTGCTGCTGATCTTGAACGCGCTGCGGAGAAC 1297  
Oy 1201 AAGGCGAGGAGAGGACTTCCCTCAGCATGCTGTGCTGATGAGCTCCGTTCAAGAAATCT 1260  
Db 1298 AAGGCGACACCCAGCGCTGCGGAGCAGCGTTGCGCTGAGACGGTTCTCTCAAGATGCAC 1357  
Oy 1261 CCCCATTTTGCAGAGCGTCTTCATTAAGGACAGTGAAGGAGGCTGTGCCGAGCTGTGATGTC 1320

1358 CCACAGTACTCCGCGGCTTCCACAAAGACCCTGAGCGGGTGGCCCTGACTCCGAGTC 1417  
QY 1321 CCGTTCCTCCGCTCTGAGATGGCAGCGGCAAGGGGCTCTATGGTGACGGGCTGGCT 1380  
Db 1418 CGTTTCTCCTCTCAGAGATGGACAGCGGAGGGGGCCCGCATGGCTATGATACATCA 1477  
QY 1381 TACCTCTGGCTACCAACACCGGGCCCGCAGAGACCTGAGTCTGAAAGCTGAGC 1440  
Db 1478 AGGTGTGAGCCCAAGTTGTGAGTCTGTGACAGATCTCTGACAGAGTTCCAGTTC 1537  
QY 1441 CACGACAGCTTCTGAGAGTTAAGAGAAATGAGTGAATGAGAGAGGCTGAGC 1500  
Db 1538 GAGGAAGACCTGAAGAAAGGTGATGAGCCGATGACAGAGAGATGAGACCTGGCTGAG 1597  
QY 1501 AAGGAGACGATGCGGCTCGCCCTGAGAGATGCTGCCACTTACCTGTGCTGACATCA 1560  
Db 1598 CTGAGACCCACGAGAGGCGCATGTAAGATGTTACCCACTACGCTTCCACCCCA 1657  
QY 1561 GATGGCAGAGAAAGAGACTTCTGGCCCTTGGATCTTGAGAGAAACAACTTCCGGGTC 1620  
Db 1658 GAAGGCTCAGAAAGTTCGAGACCTTCTCTCTAGACTGGAGAGAACCAACTTCAGAGTG 1717  
QY 1621 CTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1674  
Db 1718 ATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1777  
QY 1675 ATCTACTCATCCACAGAGAGTTATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1734  
Db 1778 ATGCTACTCATCCGAGAGAGCGCATGAGCGGACCTGCGAGATGCTCTTTGACTCATC 1837  
QY 1735 GTCCAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1794  
Db 1838 TCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1897  
QY 1795 GCTTTCACATCT 1854  
Db 1898 GCTTTCACATCT 1957  
QY 1855 TGGACAAAGGATTCAGAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1914  
Db 1958 TGGACAAAGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2017  
QY 1915 GAAGGATTCACCGGCGAGAGAGTTGACCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1974  
Db 2018 GATGCTATCAGAGAGAGAGAGGACTTGTGATGATGATGATGATGATGATGATGATGAT 2077  
QY 1975 GTTGGGACTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2034  
Db 2078 GTTGGGACTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2137  
QY 2035 GGCACCGGAG 2094  
Db 2138 GGCACCGGAG 2197  
QY 2095 GAGAGGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2154  
Db 2198 GATGAGGAG 2257  
QY 2155 GATGAGCTTGGGAG 2214  
Db 2258 GATGAGCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2317  
QY 2215 CAGAGGCTGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2274  
Db 2318 CAGAGGCTGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2377  
QY 2275 ATGATTTTACAG 2334  
Db 2378 CTGTAAGGCTGAG 2437  
QY 2335 AGGGAATCTCTGAAAGTAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2394

Db 2438 CGTGTGCTTTTGAAGACCCGTTTCGTTGTCACAAAGTGAGAGGAGCTCCGGGACCAAG 2497  
QY 2395 CAGGTTCTGCTCCATCTCTGCGCCACCTAGGCTGAGAGACGCTGCGATGACAGATCATC 2454  
Db 2498 CAGATCCACAACTCTTAAAGCACTTGGGCTTGAACCTCTCTGACCCGACTCGACATTC 2557  
QY 2455 GTGAAGAGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2514  
Db 2558 GTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2617  
QY 2515 GCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2574  
Db 2618 GCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2677  
QY 2575 GCGCTGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2634  
Db 2678 GCGCTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2737  
QY 2635 GTGAGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2694  
Db 2738 GTGCGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2797  
QY 2695 AAGGAGAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2752  
Db 2798 AGGAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2830

RESULT 8  
US-08-588-976-8  
Sequence 8, Application US/08588976  
Patent No. 5891717  
GENERAL INFORMATION:  
APPLICANT: Christopher B. Newgard, et al.  
TITLE OF INVENTION: Methods and Compositions for  
NUMBER OF INVENTION: Inhibiting Hexokinase  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESSES:  
ADDRESSER: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: TX  
COUNTRY: US  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/588,976  
FILING DATE: Concurrently herewith  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Fussey, Shelley P.M.  
REGISTRATION NUMBER: 39,456  
REFERENCE/DOCKET NUMBER: UFSO:481/FUS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (512) 418-3000  
TELEFAX: (512) 474-7577  
TELEX: N/A  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2911 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-588-976-8

Query Match 44.2% Score 1218.2 DB 2: Length 2911:  
Best Local Similarity 65.6% Pred. No. 0:  
Matches 1794; Conservative 0; Mismatches 933; Indels 6; Gaps 1:  
QY 1 ATGATCCCTGCGCATATGATGCTGCTGCTTATTCAGGAGCTCAACCAAAACAGTGCAG 60



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OY 2215 CAGAGCTTCGAGAGATGATCAGCGGCATCTACTTGGAGAGATTGGCCCAATTC 2274
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Db 2318 CAGCTGTACGAGAAGATCATCGGTGGGAATATATGGCCAGCTGTACACTTGTCTG 2377
OY 2275 ATGAGATTTCACGAAGCGGGGCTGTCTTCCGAGCGCCGATCTCAGAGCCCTCAAGACA 2334
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Db 2378 CTTAAAGCTGTGGAGCAGAAAGCTTCTGTTCACGAGAGAGGCTCGAGAGCTGGCCACAG 2437
OY 2335 AGGGGAATCTCTGAACATAAGTCTCTCATAGTAGAGAGGAGCGCTAGCCCTGTCTA 2394
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Db 2438 CGTGGGTCTTTTGAAGACCCCTTTCGTCTCACAAGTGGAGAGGACCTCGGGGACCGAAG 2497
OY 2395 CAGGTTCTGTGCCATCTCTGCGCCACCTAAGGGCTGGAGAGACAGTGCATGACAGCATCATC 2454
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Db 2498 CAGATCTCACAACTCTTAAGACACTGTGGGGCTTGCACCCCTCTGTCCACCGACTGCCAATT 2557
OY 2455 GTGAACAGAGTGTGCACTGTGGTGGCGCGCGGCTGCACAGCTCTGTGGCGCAGCATG 2514
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Db 2558 GTGCGCGCTGTCTGTAAAGCGTCTCAGCTCGCGCGCCCATATGTGCTCCGACGACTTA 2617
OY 2515 GCCGCGCTAGTGGACAAGATTAAGAGAGAACGCTGGGCTGGACAAACCCAAAGTGACAGTG 2574
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2618 GCTGGGCTCATTAATCGCATGGCCGAACCCGAGTAGAGAGACTGATGGCCATCACTGTG 2677
OY 2575 GCGGTGACAGGAGCTCTGTATAAGCTTTCATCTCACTTTGCCAAGGTGATGATGAGAGC 2634
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Db 2678 GCGGTGATGAGTCTCGGTGTACAAGCTGCACCCGAGCTTCAAGAGCGGTTTCACGCGACT 2737
OY 2635 GTGAGAGATCTGCTGCCGAATGTGACGTGTCTTCCGGAATCCGAGAGCGGCACTGGG 2694
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Db 2738 GTGGCAGAGCTCAACACCCCACTGCCAATACACTTCACTGATGAAATCAGAGAGGGCAGCGC 2797
OY 2695 AAGGACACAGCTCTCATCACTGCTCCGTGGCGTGC 2727
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Db 2798 ACGGACCGCAGCTGTCTCTCGGTGGCGTGC 2830

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## RESULT 9

US-08-588-983-17

Sequence 17, Application US/08588983

Patent No. 5854067

GENERAL INFORMATION:

APPLICANT: Christopher B. Newgard, et al.

TITLE OF INVENTION: Methods and Compositions

TITLE OF INVENTION: for Inhibiting Hexokinase

NUMBER OF SEQUENCES: 43

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White &amp; Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: TX

COUNTRY: US

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/588,983

FILING DATE: Concurrently herewith

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Fussey, Shelley P.M.

REGISTRATION NUMBER: 39,458

REFERENCE/DOCKET NUMBER: UTSD:424/FUS

TELECOMMUNICATION INFORMATION:

TELEPHONE: (512) 418-3000

TELEFAX: (512) 474-7577

TELEX: n/a

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

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; LENGTH: 3692 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-588-983-17

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Query Match          36.0%: Score 990.8; DB 2; Length 3692;
Best Local Similarity 62.3%: Pred. No. 4,2e-266;
Matches 1619; Conservative 0; Mismatches 957; Indels 24; Gaps 3;

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Db 252 ATGAGCAAGGCGCTGAAGGACAGAGACAGACTCCCGCTCTTCTGTCCGATGTGGCCACA 311
OY 199 TTTGTGAGTCACTCCGATGGAGACAGACTGGGAGTTCTGCTGTGATCTTGG- 257
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Db 312 TACGTGAGGTCCACACACATAGTCACCGAGCAAGAGACTTCTGCTGTGAGCTGGGG 371
OY 258 -----AGAACCAACTTCGCTGTGCTCCGAGTAAGGTGACGGACAAATGGCTCCAGAGA 312
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Db 372 GCCACAGAGAGCTCACTACGTGTGTGTGTTAGTACACTGACGGGACCAAGGAACACAGC 431
OY 313 GTGAGATGAGAACCAAGATCTACGCCATCCCTTGAGACATCATGCGGGCAGTGGAACCC 372
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Db 432 GTGAGACCAAGAGCCAGAGAGTTGTGATCCCTCAAGAGTGTATCTAGTGTGGCAG 491
OY 373 CAGCTGTTGACACACATGCGCAATGCTGGCCAACTTCAATGACAACTCAAAATCAA 432
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Db 432 CAGCTGTTGACTTGTGTCGCCCGGCTCTCTGTGAATCTCGATGATACCTCCGCTGGAG 551
OY 433 GAGAGAAAGCTCCCTGCTGGTTTACCTTCTGTTCCCTGCGCCACGACAAACTGAT 492
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Db 552 AATCAGGGTCTGAAGGCTTGGGTTAATTTCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 611
OY 493 GAGACTTTTGTGCTGCTGCTGAGCTAAGGGTTCAAGTCCAGTGGCGTGGAGAGCAGAT 552
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Db 612 AAGAGCACCCCTCATTTCTCGGACAAAAGGTTTAGTGTCACTGTGTGTAAGGCCAGAGAT 671
OY 553 GTGTGAGACTGATCCGGAAGTTATCCAGGCGAGAGGGGACTTTGACATTTGACATTTGTC 612
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Db 672 GTGTGCTCAGTTGCTTAAGGATGCCATTCAGAGGAGGAGGACTTCAATTTTGAATGTGTA 731
OY 613 GCCGTGTGAATGACACAGTTGGGACCATGATGATGCTGTGCTATGATGATCAGACTGC 672
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Db 732 GCCATGTGAATGACACAGTGGGTATCATGATGATGATGATGATGATGATGATGATGATGAT 791
OY 673 GAGATTGCTCATTTGTGGGACACTGCGACAGACCCCTGCTCATGAGAGAAATGCTCAT 732
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Db 792 GAAGTCGGCTTATTTGATGACAGTGTACCAATGCCCTTTATATGAGAGAGAGGAC 851
OY 733 ATTGACATGTGTGAGAGAGATGAGAGGCGCATGTGATCAACATGAGTGGGAGCCCTT 792
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 852 GTGCGACTCTGTGATGAGACCGGGGCGGTACCTGTCTCAGCATCGAGTGGGCTCTTTC 911
OY 793 GGGGACAGCGTACATCAATGACATCCGAACGAGTTTGACCGAGAGATGACATGAGGC 852
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Db 912 TATGACCAAGAGGCGCTTAGGGCCAGTACTGACCACTTGACAGCATGCGCTTGACACAGAG 971
OY 853 TCGCTGAACCTGGGAGGAGCGTGTGAGAGAATGATGATGACCGGATGTACATGGGGAG 912
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Db 972 TTCCTGTTCTGTGTGCTGCTGAGGTTGAGAAAGATGATGAGGCTTTTACTTGTGTGAG 1031
OY 913 CTGCTCAGGCTCATCTGTGTAAGATGGCCAAAGCAGAGCTGTGTTCCAAAGGAATC 972
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Db 1032 CTGTGAAGCTGTGGTGGTGGTCCACTTGTCCACAGATGGGTCTCTTTGTGTGCTCGGCC 1091
OY 973 AGCCCAAGACTCTTACACTGCTCTTTCAGACCAAGAGTCTCGATTTATTTAAGAG 1032
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Db 1092 TCTCTGCGTGTGTGAGTCAAAACACATCCTTCGAACATGTGCGCAAAATGAGGAGAC 1151
OY 1033 GATAGAGATGAGATGAGAAAGCCCTACCAAAATCTGATGCGCTGGGTCTGATTCATTG 1092
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Db 1152 CCTGCCACTGGATACGCCCAAGTCCACAGAGTCTCAGAGGCTTGGGTGTGAGCCCTCAG 1211

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QY	1093	CAGAGAGATTGTGGCCACGACCGGATCTGCGCAGATTGTGTCACGCGCTCGCCAGT	1155
Db	1212	GCCTCAGATGCTGAGCTGCTGGACGGCGTGTGCATGGCTGTGGCAGCGGACGCTGCCAG	1271
QY	1153	CTGTGGCAGCCACCCTGGCCCGCGGTGTGTGGGGATTCAAAGGAAACAAAGGCCAGGAG	1212
Db	1272	CTCTGTGCTCTGCGCTGGCTGGCTGCATGCTATCCGCGCTCCAGCAGACGAGGAGCAGCAG	1331
QY	1213	CGACTTCGCTCCACCATGCGGTGTGCATGGCTCGGTCTACAAGAAACATCCCATTTTGGC	1272
Db	1332	ACACTCAGCTGAGCGCGGTGGCCACTGTGAGGCGGAGTGTTCGAATGGCACCCGAGTTCTGC	1391
QY	1273	AMCGCTCTCCATTAAGCAGATGTGAGAGGTGTGTGGCCGACGTGATATTCGCTTCTCCGC	1332
Db	1392	TGCACTCTTAAGAGAACGCTGATGCTCTTGGCCCCCAAGAGTGTATGTCTTCCTCATTCGC	1451
QY	1333	TCGTAGGATGTGACGCGCGCAGAGGGGGCTGCTATGGTGTACGCGCGGTGTGCTACCGTGTGCT	1392
Db	1452	TCGTGTGATGTGTGTGGCCCGGGGTGTGGCAATGGTGTACTGTGTGCACCCCGCTGGCT	1511
QY	1393	GACCAACACCGGGGGCCGCGCAACAAACCTTGAGTCTCTAAGCTGTGACCGACGACGAGCTT	1452
Db	1512	ACCCACAGGCGCATCTTGAAAGAACCTTGCGCACATTTCTAGCTGTGAGCTGTGAGCAGCTG	1571
QY	1453	CTGGAGATTAAAGAGAATGAAGTGAAGTGTGAGAGAGGCTGTGCAAGAGAGACGAT	1512
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QY	1513	GGGGTCGCCCTGTGTAGAGATGCTGCCCATTTACGTGTGTGCCACTTCAGATGGCAGAG	1572
Db	1627	----CCCTCTCCCTCCGATCTCTCCACTTACGTCCGAGCAACCGCCGATGGCAGCGAA	1682
QY	1573	AAAGAGACTTCTTGCGCTTGGAGATCTTGGAGAAACAACTTCCGGGTCTCTGTGTGCT	1632
Db	1683	CGAGGTGACTTCTCTGCTTTTGGACTTGAAGGGGCGACCACTTCCGCTGTGTGTAGCG	1742
QY	1633	GTGCTTAATGTGACGCGAGGGGGGTGTGAATCATTAACAAATCTTACTCCATCCACAG	1692
Db	1743	GTGGCCGAGGCA-----GTTTCAGATTCACCAACAGAGTCTACTTATTTCTGGAG	1793
QY	1693	GAGGTTATGCAATGGCACTGGCGGAAGGCTTCTGCACACATTTGCACGTGATTTGGCGAG	1752
Db	1794	TATGTAGCCCGGGCTGTGGACAAAGACTTTGTATCATATTTGTGACTGTGACTGTGGAC	1853
QY	1753	TTCCGTGAGTACATGGGCTAGGAAGGGCGTGTCCGTCTTGGTGGTTTCCATTTCTCTTC	1812
Db	1854	TTTCCAGAGAGCGCAAGGCTTTAGCGGACAGAGCTTACCCCTGGGTTTACCTTCTTTT	1913
QY	1813	CTTTGCGCAGAGAACAGCCTTAGACACGAGACATCTCTCAAGTGTGACAAAGAGATTGAAG	1872
Db	1914	CTTTGCAAGCGAGCTTGGCTCGGACACGAGGCTATCTCTCACTGAGCTAAGGGTTCAAT	1973
QY	1873	GCATCTGGCTCCGAGGGTGTGAGTGTGTACCTTGTGCTGAAGGAAGGATTTACCGGCGCA	1932
Db	1974	GCATCAGGCTCTCGAGGGCCAAAGATGTGTGTATTATTAACGGGAAGCCATTAGCGCGAGA	2033
QY	1933	GAGGAGTTTGACCTGATGTGTGTGCTGTGGAATGTGACACAGTTGGAGATGATGATGAC	1992
Db	2034	CAGGCACTGTGAGGCTGAGATGTGTGCTTGTGCATTTGTCAATGACAGCGTGGGACCATGATGTCC	2093
QY	1993	TGTGGCTACGAACACCTCTACTGTGAAGTTGGCTCATTTGTTGGCACCGGAAGACGCGC	2052
Db	2094	TGTGGCTATATATATCCCTGTGTGTGTGAGTGGGCTCATTTGTGGAACCGGTACCAACGCGC	2153
QY	2053	TGCTACATGTGAAGATGCGTATGTGTGTGAGCGTGTGGACGAGGAGGAGGAGGACGATGTGT	2112
Db	2154	TGCTATATGTGAAGAACTCCGGAATGTGGGAGTGTGTGCCCGGGGCTCAGGCGCAATGTGT	2213
QY	2113	GTCAACATGTAGTGGGAGCAATTTGGGGCAATGGCTGCTGCTGATGTACTTCCGAGACCGTG	2172
Db	2214	ATCAACATGTGAGTGGGCTGCTTTGGGATGACGCGTCACTTGAGCAATGCTCGGCACTTCCG	2273

QY	2173	TTTGGATGTCGTGGATGAGCACTTTCTCTCAACCTGGCAAAACAGAGGTTCCAGAAATG	2232
Db	2274	TTTTTGTAGTCGTGGATGAGCACTTTCTCTCAACCTGGCAAAACAGAGGTTTAAAGAAATG	2333
QY	2233	ATACAGGCATGTACTTGGGAGAGATTGTGGCAACATTTCTCATCTTCAACGAGAGCGG	2292
Db	2334	ATCAGCGGAAGTGTACTTGGGAGAGATTGTGGCAACATTTCTCATCTTCAACGAGAGCGG	2393
QY	2293	GGGCGTGTCTTCCAGAGCGCCGATCTCAGACCGCTCAAGACAAGGGGAATCTTGAAACT	2352
Db	2394	GGAGTTCCTCTTCCAGAGCGCCGATCTCAGACCGCTCAAGACAAGGGGAATCTTGAAAGC	2453
QY	2353	AAATTCTGTCTCAGATAGAGAGCACTGCTAGCCCTGTACAGGTTGTGTCATCTCTG	2412
Db	2454	AAATTCTCTCCGAGATTGAGAGGAGCAAGCTTGCTTCAAGCAAGGACATCTTTAAAGAC	2513
QY	2413	CGCCACCTAGGGGCTGGAGAGCAGCTGCGATGACAGCATCATGTAAGAGAGGTGTCACT	2472
Db	2514	GAGGACCTGGGGGCTGACTGTGATGTGATGATGATGATGATGATGATGATGATGATGATG	2573
QY	2473	GTGATGTCGCGCGCGCTGTGACAGCTGTGTGGGCGAGGATGGCGCGGTACTGAGACAAG	2532
Db	2574	GCTGTGTCTCCGAGAGGCGCGCGCTGTGACAGCTGTGTGGGCGAGGATGGCGCGGTACTG	2593
QY	2533	ATAGAGAGAAACGCTGGGCTGGACAACCCCAAGATGACAGTGGGCGTGGAGAGCACTGTG	2592
Db	2634	ATACGCGGAGAACCGGGGCTGTGCAAGGAGCTGACAGTGTGTGTGGAGTGGATGGAGCGCTC	2693
QY	2593	TATTAAGCTCATCTCTCACTTTGGCCAAAGTCATGATGAGAGCGGTGAGAGATCTGGCTCGG	2652
Db	2694	TACAGCTCATCTCTCACTTTGGCCAAAGTCATGATGAGAGCGGTGAGAGATCTGGCTCGG	2753
QY	2653	AAATGTACAGCTGTCTTCCGAGATCGGAGAGCGGAGGGGAAGGAGAGAGCTGTCAATC	2712
Db	2754	CAGTGCACATCACTTTTGGCATGTGAGAGATGGGTCTGGGAAAGGGGACGCTGTGTC	2813
QY	2713	ACTGCGGTGGCTGCGCAT 2732	
Db	2814	ACTGCTGTGCTTGGCGGCT 2833	
RESULT 10			
US-08-588-976-17			
Sequence 17, Application US/08588976			
Patent No. 5891717			
GENERAL INFORMATION:			
APPLICANT: Christopher B. Newgard, et al.			
TITLE OF INVENTION: Methods and Compositions for			
NUMBER OF SEQUENCES: 43			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Arnold, White & Durkee			
STREET: P.O. Box 4433			
CITY: Houston			
STATE: TX			
COUNTRY: US			
ZIP: 77210			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: Patentin Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/588,976			
FILING DATE: Concurrently herewith			
CLASSIFICATION: 435			
ATTORNEY/AGENT INFORMATION:			
NAME: Fussey, Shelley P.M.			
REGISTRATION NUMBER: 39,458			
REFERENCE/DOCKET NUMBER: US/08/481/FUS			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: (512) 418-3000			
TELEFAX: (512) 474-7577			

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;
; TELEX: n/a
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3692 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-588-976-17

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Query Match      36.0%; Score 990.8; DB 2; Length 3692;
Best Local Similarity 62.3%; Pred. No. 4.2e-266;
Matches 1619; Conservative 0; Mismatches 957; Indels 24; Gaps 3;

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OY 139 ATGGCAAAAGGCTAGAGACTACACAGCACCTTACAGACAGCTGGAATAATGTTGCTCC 198
Db 252 ATGGCAAAAGGCTGAAAGGACAGACAGCTCCGCTCTTCTGTCGGATGTTGCCACACA 311
OY 199 TTTGTGAGTCAACTCCGATGGGACAGAACATGGGGAAGTTCTGCTGATCTTGG- 257
Db 312 TACGTGAGTCCACACACATGTCGACCGGCAAGGAGACTTCTGCTGCTGAGCTGGGG 371
OY 258 -----AGCAACCACTTCGCTGCTCCAGTAAGGGTACGGACAATGGCCTCCAGAGA 312
Db 372 GCCACAGAGCCTCACTACGTGTGTTGGGTACACTGACGGGACCAAGAACACAGC 431
OY 313 GTGACATGAGAGAACAGATCTACGCCATCTTGAAGACATCATGCGGGCAGTGGAAAC 372
Db 432 GTGGAACACAGAGAGCCAGGATTTGTGATCCCTCAAGACGTATCTAGTGTGCTGGCCAG 491
OY 373 CAGCTCTTTGACCAACATCCCGCAATCCCTGGCCAACTTATGAGACAGCTACAAATCAAA 432
Db 492 CAGCTCTTTGACATTTGCTGCTCCGCTGCTCTCTGAAATTCCTGGATACATCCCGGAGAT 551
OY 433 GAGAACAAGCTCCCTGAGGTTTACCTTCTGCTCCCTGGCCACAGCAAAACTGAT 492
Db 552 AATCAGGCTCTGAAGCTTGGGTTAATTCTCTTCTTCTGTCACAGACAGGCTTGGAC 611
OY 493 GAGAGTTTTTGGTCTGTCGTGAGACTAAGGGTTCAAGTCCAGTGGCTGGAAGGCAAGAT 552
Db 612 AAGAGACACCTCAATTCGTGAGCAAAAGTTTATGCTGACAGTGTGGAAGGCCAGGAT 671
OY 553 GTGCTGAGACTGATCCGGGAAGTTATCCAGCGGACAGAGGGCACTTTGACATTGATTTG 612
Db 672 GTGCTGCACTGCTAAGAGATCCCATTTACAGAGGACAGGACCTACATATTTGATGTGTA 731
OY 613 GCCCTGCTGAATGACACAGTTGGACATGATGACTTGTGGCTATGATGATCAAGAACTGC 672
Db 732 GCCATGCTGAATGACACAGTGGGATCATGATGGCTGTGAGCTGGGACCAAGGCCATGT 791
OY 673 GAGATTGCTCATTTGTGGGCACTGGCAGCAAGCCCTGCTACATGGAAGGAATGGCTCAT 732
Db 792 GAAGTCCGGCTTATTTAGACACTGTGATGCAATGCTGTTATATGAGAGGAGGAGGACAT 851
OY 733 ATTGACATGCTGAGAGGATGAGAGGGGCGATGCTGATCAATGAGAGTGGGAGCCCTTT 792
Db 852 GTGCACTGCTGATGATGAGACCGCGGCGCTACCTGTGTGTCAGATCAGATGGGCTCTTC 911
OY 793 GGGGACAGCGGTACACTCAATGACATCCGAAGCTTGGACCGAGATGCATGAGGCG 852
Db 912 TATGACAGAAAGAGCGCTAGGGCCAGTACTGACCACCTTCCAGATGCGCTGGGACCAAG 971
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Db 972 TCCCTGCTTCTGCTGCTCAAGAGTTTGAAAGATGATTTGTTGCTTACTTGGGTGAG 1031
OY 913 CTGCTCAGGCTCATCTGTGGAAGATGGCCAAAGGACAGCTGTTGTTCCAAGGAACATC 972
Db 1032 CTGCTAAGGCTGCTGCTGCTGCTCACTTCTCCAGATGGGCTCTTGTGGTGGCTGGCC 1091
OY 973 AGCCCAAGAACTCTTACCACTGCTCTTGAAGCAAGATGCTTCGGAATATTGAAGAG 1032
Db 1092 TCTCTCTGCTGCTGCTGCTCAAAAGACATCTCTCTGGAACATGTGGCCAAATGAGAGAC 1151

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OY 1033 GATTAAGATGATGATGGAAGAGCCCTACCAAAATCCATGATGCGCTGAGTGAATTCATTTG 1092
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OY 1093 CAGGAGATTTGTGTGGCCACAGCCAGAACTTCCAGATTTGTTCACAGCGCTGGCCACT 1152
Db 1212 GCTCAGATGCTGAGCTGTCACAGCGGCTGATGCTGTGTCACAGCGAGCTGCCAG 1271
OY 1153 CTGTGCCAGCCACCGCGCGGCTGTGGGGAATTCAAAGAGCAAGAGGCGAGAG 1212
Db 1272 CTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1331
OY 1213 CGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1272
Db 1332 ACACCTGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1391
OY 1273 AAGCTCTTCCATTAAGCAGTGAAGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1392
Db 1392 TGCATCTTAAGAGAGACGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1451
OY 1333 TCTGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1392
Db 1452 TCTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1511
OY 1393 GACCAACACCGGCGCCGCCAGAAAGCCTTGAAGCTGTGAGAGCTGAGCAGACAGACTT 1452
Db 1512 ACCCAAGCGGCGATCTGGAAGAGACCTTGCACCATTTTCAAGCTTGTGACACTGTG 1571
OY 1453 CTGAGATTTAAGAGAGAAATGAAGTGAATGAGCAGGCTGTGAGCAAGAGAGACCAT 1512
Db 1572 ACAGCGGTGTCAGAGCAAAATCGGGAAGCCATGATCAGAGGGCTTCAAGAGAGAG- 1626
OY 1513 GCGGTGCCCTGTGAGAGATGCTGCCCATTAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1572
Db 1627 - - - - -GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1682
OY 1573 AAAGAGACTTCTTGGCTTGGATCTTGAAGAACTTCCGGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1632
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Db 1743 GTGCGCGAGAGCA- - - - -GTGTTCAATACCAACCAAGCTGATCTTCAATTCCTAG 1793
OY 1693 GAGCTTATCATGACATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1752
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OY 1813 CCTTGACAGCAACACAGCTTAACCAAGAGATCTCTCTCACTGAGTGAACAAAGGATTTCAAG 1872
Db 1914 CCTTGACAGCAACAGCTTGAAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1973
OY 1873 GCATGCTGCTGAGAGGATGAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1932
Db 1974 GCATGAGGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2033
OY 1933 GAGGATTTGACCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1992
Db 2034 CAGGAGTGGAGCTGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2093
OY 1993 TGTGCTACGAAGACCTTCACTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2052
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OY 2053 TGTGCTACGAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2112
Db 2154 TGTGCTACGAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2213
OY 2113 GTCAACATGAGAGTGGGAGCATTTTGGGACAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2172

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Db 2274 TTTGATGCTGAGGTGACACGAGCATCAACCCAGCAACAGAGGTTGGAAGATG 2233
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Oy 2233 ATCAGCGCATGCTACTTGGGAGATTTGCGCAACATTTCTCATTTTACAGAGCGG 2292
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Oy 2353 AACTTCCTCTCTCAGATAGAGAGCGATGCTAGCCCTGCTAGAGGTTCTGCTGCTCTG 2412
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Db 2454 AACTTCCTCTCTCAGATAGAGAGCGATGCTAGCCCTGCTAGAGGTTCTGCTGCTCTG 2513
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Oy 2413 CGCCACCTAGGCTGAGAGAGCGATGCTAGCATCTCTGTAAGAGGTTGCTGCTACT 2472
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Db 2514 GAGGACTGCGGCTGACTGAGCTGATGATGCTTGTGATGCTCTAGAGGTTGCTGCTAG 2573
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Oy 2473 GTGGTGGCGGCGGCTGAGAGCTGCTGTGGCGAGGATGGCGGCTGATGAGAG 2532
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Db 2574 GCTGTGCTCCGAGGCGGCTGAGAGCTGCTGTGGCGAGGTTGCTGCTGCTGCTGAGAG 2633
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Db 2634 ATAGAGAGAGAGCGGCGGCTGAGAGAGCTGAGAGTGTCTGTGGAGTGGAGAGCTCTG 2693
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Oy 2593 TATAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2652
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Db 2694 TACAGAGTACATCCCACTTCTCCAGGCTGTGTCAGTACAGTCTGGAAGCTAGCCCT 2753
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Oy 2653 AATGAGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2712
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Db 2754 CAGTGCAAGTCACTTTTGGCAATCGAGAGATGAGTGTCTGGAAGGCGGCAAGCTTGTCT 2813
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Oy 2713 ACTGCGGCTGCGCTGCGCAT 2732
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Db 2814 ACTGCTGCTGCTTGGCGCT 2833
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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (512) 474-7577
;
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1463 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-08-588-983-6
;
Query Match      25.7% Score 706.8; DB 2; Length 1463;
Best Local Similarity 69.8%; Pred. No. 3,7e-187;
Matches 954; Conservative 0; Mismatches 412; Indels 0; Gaps 0;

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Db 928 TTAAACCGGTGATCTCTCAACCCCTGGAGACAGCTGTTGAGAGATGCTAGGGGCAATG 997
QY 901 TACATGGGGAGCTGTGTCAGGCTCATCTGTTGAAGATGCCAAGCAGACGCTTTCTTC 960
Db 998 TACATCGGGAGCTGTGTCGGCTATCTGTTGAAGATGGCCAAAGGAGGCTTTATTC 1037
QY 961 CAAGGAAACACACCCAGACCTCTTAACCACTGCTCTTCGAGACCAAGATGTCTCG 1020
Db 1058 GAAGGGCGCATCTCAAGACCTGCTCAAGAGGAAAGTCAACACTAGTACGTGTC 1117
QY 1021 GATATTGAGAGATTAAGATGATGAGAAAGCTTACCAATTCGATGCGGCTGGGT 1080
Db 1118 GCCATTGAAAAGATTAAGAAAGCATTCAAATATCCAAAGAAATCTTAACCCGCTTGGGA 1177
QY 1081 CTGAATCCATTGACGAGAGATTGTGCGCCACGACCGAAATCTGACGATTTGTTCACG 1140
Db 1178 GTGAGACCGCTGTGATGTTGACTGTGTGCTCGCTCAGACATCTGACAGATGCTCTTC 1237
QY 1141 CGCTCGCCAGTCTGTGTCGAGGACCCCTGCGCGGCTGCTGTGGCAATCAAGAGAAC 1200
Db 1238 CGATCAACCAACTGTGTGCGCGGACGCTGCTGTCATCTTGAACCCCTGCGGACAC 1297
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Db 1298 AAGGGCAGACCCAGCCTGCGGACCAAGCTTGTGGCTGAGCGTTCTCTCAAGATGCAC 1357
QY 1261 CCCCATTTCCTCAAGGCTCTCCATTAAGCAGTAGAGAGCTGTGCCGACTGTGATGTC 1320
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RESULT 12
US-08-588-976-6
: Sequence 6, Application US/08588976
: Patent No. 5891717
: GENERAL INFORMATION:
: APPLICANT: Christopher B. Newgard, et al.
: TITLE OF INVENTION: Methods and Compositions for
: NUMBER OF SEQUENCES: 43
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Arnold, White & Durkee
: STREET: P.O. Box 4433
: CITY: Houston
: STATE: TX
: COUNTRY: US
: ZIP: 77210
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/588,976
: FILING DATE: Concurrently herewith
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Fussey, Shelley P.M.
: REGISTRATION NUMBER: 39,458
: REFERENCE/DOCKET NUMBER: UTSD:481/FUS
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (512) 418-3000
: TELEFAX: (512) 474-7577
: TELEX: n/a
: INFORMATION FOR SRO ID NO: 6:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1463 base pairs
: TYPE: nucleic acid

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: STRANDEDNESS: single
: TOPOLOGY: Linear
: us-08-588-976-6

Query Match      25.7%; Score 706.8; DB 2; Length 1463;
Best Local Similarity 69.8%; Pred. No. 3.7e-187;
Matches 954; Conservative 0; Mismatches 412; Indels 0; Gaps 0;

QY 1 ATGATCCGCTTCGCTATGATGCTGCTTATTCAGSAGCTCAACCAAAACAGTGCAG 60
Db 98 ATGATCCGCGGCAACACTACAGGCTTACTTACCAGCTGAAGATGACAAAGTCAAA 157
QY 61 AAGTTGACCAATTTCTCTACACATGCGTCTGCTCAGATAGACCCCTTGGAGATTCT 120
Db 158 AAGATTCAACAAGTATCTGATCGCATGCGCTCTCTGATAGATTCTGATGATATCTG 217
QY 121 AGGCGGTTCCGGAAAGAGATGAGAAAGGCTTAGAGACTACACGCAACCTTAAGACGT 180
Db 218 ACAAGATTCAAGAAAGAGATGAGAAATGGCTCTCCCGGATTTATATCAACAGCTTC 277
QY 181 GTGAAATGTGCTTACCTTTGTGAGTCAATCCGATGGAACAGACATGGGAGTTTC 240
Db 278 GTCAAGATGCTGCCACCTTGTCCGATTCATTCGAGCGCTCAGAAAGGSGGATTTTC 337
QY 241 CTGCTCTGATCTTGGAGAACCAACTTCCGTTGCTCCGAGTAAAGGCTGAGGACGACAT 300
Db 338 ATTGCCCTGTGATCTGCGGCGGCTTCTCTTCTGATCTCTGCGGTGCAAGTGAACACGAG 397
QY 301 GGCCTCCAGAGATGAGATGAGAACCAAGATCTACGCCATCTTGAGGACATCATGCGG 360
Db 398 AAGAACCAACAACTCAGCATGAGTGTGAGATCTAGATCTAGACACCCAGAGAAACATCGTGCAT 457
QY 361 GGCATGSAACCCAGCTGTGTTGACCAATCCCGGATGCGGATGCTGCGCACTTATGACGAG 420
Db 458 GGCATGSAACCCAGCTGTGTTGACCAATCCCGGATGCGGATGCGGATGCGGATGCGGAT 517
QY 421 CTACAATCAAGAGAGAGAGCTCCCTGCTGGGTTTACCTTCCGTTCCCGGACACGAG 480
Db 518 AAGAAAGATCAAGAGACAAAGAAAGTTACCCGTTGGATTCACATTTTCTCCCTGCGACAA 577
QY 481 ACAAAGCTGATGAGAGATTTTGTGCTGCTGCTGACTAAGGGGTTCAAGTCCAGTGGCGTG 540
Db 578 TCCAAGATGAGAGAGCTGTACTGATCAAGTGCAGCAAAACGCGTTCAAGGCCAGTGGCGTG 637
QY 541 GAAGCAGAGATGTGTGAGACCTGATCCGGAAGTTATTCACGCCAGAGGGGACTTTGAC 600
Db 638 GAAGAGCGGATGTGTGATCAAGTTGCTGAATTAAGCCATTAAAGCCGAGGGGACTATGAT 697
QY 601 ATTGACATTTGTGCGCGTGTGAATGACACACTTGGGACCATGATGATGTTGTGATGAT 660
Db 698 GCTTACATTTGTGCGCGTGTGAATGACACAGTAGAGACCATGATGATGATGATGATGAT 757
QY 661 GATCAGAACTGGAGATTTGTCTATTGTGGGCTGCGACCAAGCCTGCTATGAGAG 720
Db 758 GACCAACAGTGTGAGTGTGCTGATTCATTTGCAACAGCCACCAATGCTTGTCTATGAGAG 817
QY 721 GAATGCTCATATTGACATGTGAGAGGAGAGTGGGGGCGCATGCTGATCAACATGAGAG 780
Db 818 GAACCTGCACATGACACTGTGTGAAGGCGACGAGGAGAGATGTGATTAACACGGAA 877
QY 781 TGGGAGGCTTTGGGAGCAGAGGTACACTCAATGACATCCAGACGAGTTTGAAGATGATGAGGAGATG 900
Db 878 TGGGAGGCTTTGGGAGATGATGAGTCCCTGGAACATCCGACAGATTTTGACAGAGAG 937
QY 841 ATGCAATGAGGCTGCTGCAACCCCTGGAGAGACACTGTTTGAAGATGATTAAGCGGAGATG 900
Db 938 TTAAACCGGTGATCTCTCAACCCCTGGAGAGAGCTGTTTGAAGATGATGAGCGGAGATG 997
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Patent No. 5854067
GENERAL INFORMATION:
APPLICANT: Christopher B. Newgard, et al.
TITLE OF INVENTION: Methods and Compositions
NUMBER OF INVENTION: for Inhibiting Hexokinase
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: TX
COUNTRY: US
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/588,983
FILING DATE: Concurrently herewith
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Fussey, Shelley P. M.
REGISTRATION NUMBER: 39,458
REFERENCE/DOCKET NUMBER: UTSD:424/FUS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-5000
TELEFAX: (512) 474-7577
TELEX: n/a
INFORMATION FOR SEQ. ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 1769 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-588-983-19

Query Match      19.0%; Score 522.8; DB 2; Length 1769;
Best Local Similarity 62.8%; Pred. NO. 8.1e-136;
Matches 831; Conservative 0; Mismatches 487; Indels 6; Gaps 1;

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OY 1884 CGAGGTGAGAGATGTGTCACCTTGTGAAGAGGATTCACCGCGAGAGAGATTGA 1943
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DB 839 AGAGGGAAACATGATGAGACTTCTCCGAGATGCTATACAGAGAGAGGACTTTGA 898
OY 1944 CCTGATGTGTGTCGGGTGAGTGAATGACAGTGTGGAGATGATGATCTGTGCTAGA 2003
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 899 GATGATGTGTGTCAGTATGATGAGAGAGAGTGTGGAGATGATCTGTGCTATGTA 958
OY 2004 AGACCTCAGTGTGAGTGTGCTTCTGTTGTCACCGAGAGAGAGAGAGAGAGAG 2063
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 959 AGACCCCAATGATGAGTGTGCTGATGATGAGAGAGAGAGAGAGAGAGAGAGAG 1018
OY 2064 AGAGATGCTGAATGAGAGAGTGTGTCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2123
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1019 GGAATGCAAGATGTGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1078
OY 2124 GTGGGAGAGATTTGGGAGACAAATGCTGCTGATGATGATGATGATGATGATGAT 2183
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1079 GTGGGGGCTTGTGGGAGACTCGGGAGAGTGTGATGATGATGATGATGATGATGAT 1138
OY 2184 TGTGATGAGCTTCTCTCAACCTTGGCAACAGAGAGTGTGAGAGAGATGATCAG 2243
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1139 GTTGATGAGAAAGCTCAGCGAACCCGCTCAGAGCTGTAGAGAGATCATGCGTGGAA 1198
OY 2244 GTACTGGGAGAGATTTGGCGCAACATTTCTCATGATTTTCAGAGAGGAGGCTGCT 2303
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DB 1199 GTATATGGCGAGACTGTATGACACTTGTGTGCTTAACTGTGTGAGAGAGAGAG 1258
OY 2304 CCGAGGCGGATCTCAGAGGCGCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2363
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1259 CCAGGAGAGAGGCTCGGAGAGAGTGTGCGAGCGGTGTGCTTTGAGACCGTTTGT 1318
OY 2364 TCAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2423
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1319 ACAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1378
OY 2424 GCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2483
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1379 GCTTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1438
OY 2484 GCGCGCTGACAGAGCTGTGTGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2543
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1439 TCGGCGCGCGATGTGTGCTCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1498
OY 2544 CCGTGGGCTGAGCAACCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2603
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1499 CCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1558
OY 2604 TCTTCAGCTTTGCCAAGGTGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2663
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1559 CCCGAGGCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1618
OY 2664 GTCTTCTGGAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2723
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1619 CACCTTCATCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1678
OY 2724 CTGC 2727
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1679 CTGC 1682
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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Search completed: March 13, 2003, 23:50:03  
 Job time : 169.699 secs

